**Sample Questions Set 1**

Q1. Run the following command on your Linux VM and answer the following questions: (4 points)

*sudo docker run -it -d ubuntu bin/bash*

1. Run the above command with *-i* option and explain what happens.

**Keep STDIN open even if not attached, can still type command**

1. Run the above command with *-t* option and explain what happens.

**Allocate a pseudo-TTY**

1. Run the above command with *-d* option and explain what happens.

**Run the container in the background, need go inside to type command**

1. Run the above command with */bin/bash* option and explain what happens.

**Launch the interactive mode**

Q2. What are the differences between *docker start* and *docker exec*? (1 point)

**docker exec executes a command on a running container.**

**docker start creates a temporary container, executes the command in it and stops the container when it is done.**

Q3. What happens when you execute run *nginx* container with *-p 8080:80* option? (1 point)

**Links to the container’s port(80) with the host port(8080)**

Q4. What can you do with *docker attach?* (1)

**Attach local standard input, output, and error streams to a running container**

Q5. How can you *ssh* into a docker container? (2)

**Step1: installing and enabling the SSH service**

sudo apt-get install

ssh sudo systemctl

ssh start sudo systemctl

ssh enable service ssh status

**Step 2: Get IP Address of Container**

sudo docker inspect -f "{{ .NetworkSettings.IPAddress }}" container\_name

### Step 3: SSH Into Docker Container

Ping the IP address to make sure it’s available

Example: ping –c 3 172.17.0.2

Use the SSH tool to connect to the image:

Example: ssh root@172.17.0.2s